ULTRASONIC SCALING

SWERV® Magnetostrictive Scaler	C1
Magnetostrictive Inserts	C4
Symmetry IQ® Piezoelectric Scaler	C11
Symmetry Piezoelectric Tips	C14

ULTRASONIC SCALING SET-UPS

ULTRASONIC SCALING INSERT SET-UP

DESCRIPTION	SUGGESTION	PAGE
Cassette	IM510x*	A3
Mirror/Handle	MIR5/3, MH6	B15
Explorer	EXD2A	B3
Probe	PCP12/11.5	B7
Ultrasonic Inserts	UI30SS10, UI25SS10 UI30SS100, UI25SS100	C4
Sickle Scalers	SH6/79, S204S9	D5, D7
Universal Curettes	SC13/149, SC4R/4L	D14

ULTRASONIC POWER SCALING INSERT SUPPLEMENTARY

DESCRIPTION	SUGGESTION	PAGE
Cassette	IM30HUx*	A5
Ultrasonic Inserts	UI30SS10, UI25SS10 UI30SS100, UI25SS100	C4

x See Section A for exact product code number for cassette color desired.*

PERIODONTAL DEBRIDEMENT SET-UP

DESCRIPTION	SUGGESTION	PAGE
Cassette	IM416x*	A3
Mirror/Handle	MIR4/3, MH6	B15
Explorers	EXD11/12AF, EXTU17/23	B3, B4
Probe	PCPUNC15	B7
Ultrasonic Inserts	UI30SS10, UI25SS10 UI30SS100, UI25SS100	C4
Sickle Scalers	SH6/79, S204SD	D5, D7
Root Planing	SAS1/2, SAS7/9,	D21, D17
Curettes	SRPG15/169, SG17/189	D20
Dressing Pliers	DP2	B13
Sharpening Stones	SS3C, SS299	D29, D30

SWERV³ MAGNETOSTRICTIVE SCALER

The SWERV³ magnetostrictive power scaler combines power and handling in a unique ergonomic design that ensures the comfort of dental patients and professionals. It integrates finely tuned electronics that improve control and scaling efficiency in all clinical indications, allowing dental professionals to provide optimal care for every patient, every day – comfortably.

FINELY TUNED ELECTRONICS
Deliver superior patient and clinician comfort while providing a full range of power for outstanding results.

DUAL POWER MODES AND TOUCH-PAD CONTROLS
Allow for accurate power adjustment and a smooth surface for effective disinfection.

ERGONOMIC HANDPIECE
Offers reduced muscle strain for enhanced clinical comfort.

COLOR-CODED LIGHTED DISPLAY
Enhances visual queue for effortless identification of selected setting.

AUTO-PURGE FUNCTION
Helps remove air from waterlines and facilitates waterline maintenance.

SWERV³ MAGNETOSTRICTIVE POWER SCALER

SWERV³ Series - 30K	UM3-30
SWERV³ Series - 25K	UM3-25

Each SWERV³ unit comes with one Swivel Direct Flow #10 Universal Insert (UI30SD10 or UI25SD10). (Subject to change.)

SWERV^{3}™ HANDPIECE FEATURES

Compatible with our patented Swivel™ Inserts for unmatched durability and superior scaling efficacy, the SWERV^{3} handpiece offers ergonomic design that is lightweight and well-balanced. The comfort zone handpiece enables use of a relaxed grasp that eliminates undesired pressure points.

COMFORT ZONE HANDPIECE
Enables use of a relaxed grasp that eliminates undesired pressure points.

ERGONOMIC DESIGN
Reduces finger pinching for a light clinical touch and enhanced tactile sensitivity. A lightweight, well-balanced design reduces clinician fatigue.

PATENTED SWIVEL™ INSERTS
For unmatched durability and superior scaling efficacy.

SWERV HANDPIECE

SWERV 30K Handpiece Assembly	UMHP30
SWERV 25K Handpiece Assembly	UMHP25

REPLACEMENT PART CODES

SWERV^{3} Barrier Sleeves	UMBS
SWERV^{3} User Manual	UMMANUAL3
SWERV^{3} Instructional CD Rom	HF-129CD
SWERV^{3} Handpiece User Manual	UMMANUALHP
SWERV^{3} Foot Control, On-Off	UMFC
SWERV^{3} Water Supply Set	UMWSS
SWERV^{3} Water Supply Connector	UMWSC
SWERV^{3} Water Filter Package	UMWF
SWERV^{3} Power Cord US	UMCORD-US

DESIGN OPTIONS

Shown in 30kHz size

SWIVEL DIRECT FLOW® INSERTS

Shown in 25kHz size

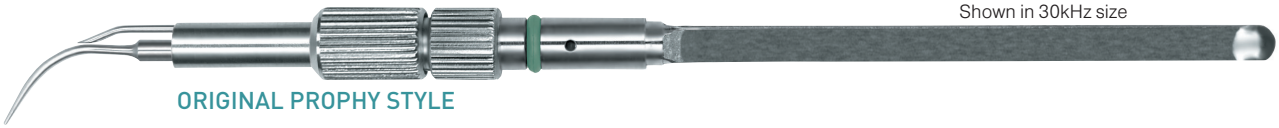
SWIVEL™ INSERTS

Shown in 25kHz size

STREAMLINE® INSERTS

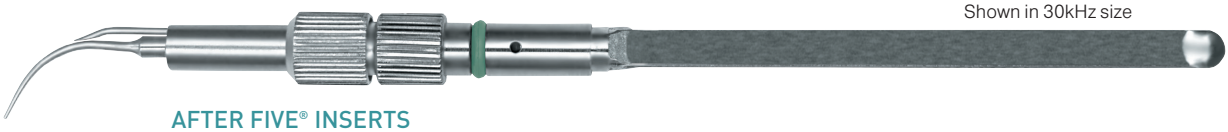
Shown in 25kHz size

ORIGINAL PROPHY PLUS™



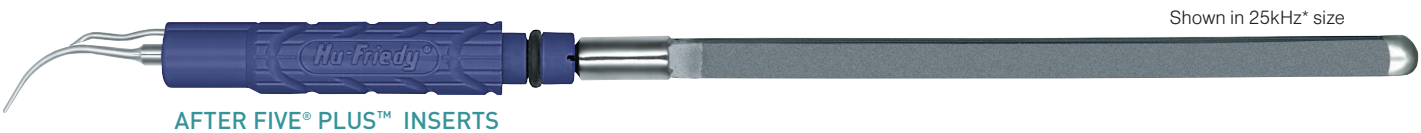
Shown in 30kHz size

ORIGINAL PROPHY STYLE



Shown in 30kHz size

AFTER FIVE® INSERTS



Shown in 25kHz* size

AFTER FIVE® PLUS™ INSERTS

EXCLUSIVE SWIVEL™ INSERTS
Roll the insert in your fingertips—no need to stop scaling to re-adjust the tip.

EFFICIENT AT LOWER POWER RANGES
Allows you to turn down the power to increase patient comfort and still achieve efficient, thorough scaling.

COLOR-CODED HANDLES
Colorful resin and silicone handles help instantly identify tip design and increase tactile sensitivity.

**Also available in metal.*

GENERAL DEBRIDEMENT

SWIVEL™ INSERTS

For smooth scaling from arch to arch or tooth to tooth

Experience the maneuverability and adaptability you want in power scaling with the exclusive Swivel inserts. With a slight rolling motion of your fingertips, you can eliminate the old “start, stop, remove and readjust” routine required with traditional inserts. Swivel inserts also reduce the torque from the handpiece cord, increasing overall balance for hassle-free scaling.

The grip – 18% larger than standard inserts* – reduces finger pinching, resulting in less hand fatigue** and enhanced tactile sensitivity. The lightly textured silicone grips provide a secure, comfortable grasp and are color-coded for easy tip identification.

Roll the insert in your fingertips for easier and more efficient scaling.

SWIVEL™ INSERTS

	#10 Universal	#100 Thin	Swivel XT™	#1000 Triple Bend
25kHz Part Code	UI25SS10	UI25SS100	UI30SSXT	UI25SS1000
30kHz Part Code	UI30SS10	UI30SS100	UI25SSXT	UI30SS1000

DID YOU KNOW?

Swivel XT is thin enough to provide acces into hard-to-reach areas, yet strong enough to effectively remove tenacious deposits even when used on low to medium power.

* *Compared to Hu-Friedy Streamline Inserts*

** *Source: Gerwatowski, L.J., McFall, D.B., Stach, D.:Carpal Tunnel Syndrome; Risk Factors and Preventive Strategies for the Dental Hygienist. Journal of Dental Hygiene, February 1992.*

GENERAL/PERIODONTAL DEBRIDEMENT

Through-Tip Delivery - The Swivel Direct Flow inserts have all of the features of the revolutionary Swivel™ inserts plus a through-tip water delivery. This design focuses the water flow directly to the tip, reducing excess spray and increasing visibility. After Five® series inserts reach deep into pockets and achieve efficient subgingival scaling with the thin tips of the After Five® Straight, Left and Right inserts. These probe-size tips offer smooth, deep access into periodontal pockets.

SWIVEL DIRECT FLOW® INSERTS

	#10 Universal	#100 Thin	#1000 Triple Bend
25kHz Part Code	UI25SD10	UI25SD100	UI25SD1000
30kHz Part Code	UI30SD10	UI30SD100	UI30SD1000

AFTER FIVE® SWIVEL DIRECT FLOW® INSERTS

SET OF THREE	Left	Straight	Right
UI25SDSET	UI25SDL	UI25SDS	UI25SDR
UI30SDSET	UI30SDL	UI30SDS	UI30SDR

DID YOU KNOW?

Hu-Friedy ultrasonic inserts are compatible with SWERV[3] and all Cavitron* style magnetostrictive ultrasonic scalers.

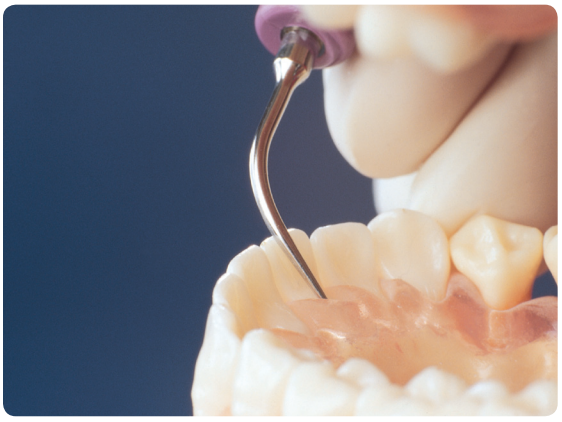
**Cavitron is a registered trademark of Dentsply International Corporation.*

GENERAL DEBRIDEMENT

STREAMLINE® INSERTS

Routine scaling is more efficient with our Streamline inserts. Designed to remove general deposits in less time, the water is delivered directly from the tip base, eliminating the need for an external water tube. Resin handles are color-coded to help instantly identify tip style and increase tactile sensitivity. The #3 Beavertail design is excellent for removal of tough calculus and orthodontic cement.

	#10 Universal	#100 Thin
25kHz Part Code	UI1025K	UI25K100S
30kHz Part Code	UI1030K	UI30K100S



STREAMLINE INSERTS
Efficient at low power settings, internal flow water delivery

	#1000 Triple Bend	#3 Beavertail
25kHz Part Code	UI100025K	UI325K
30kHz Part Code	UI100030K	UI330K

ORIGINAL PROPHY INSERTS

The standard diameter Prophy style tip is the original ultrasonic insert design, with a finely beveled external water delivery tube. The PLUS™ insert features a fixed water delivery tube in a lightweight resin handle.

	Original Prophy Style	Original Prophy PLUS™
25kHz Part Code	UI25KP10	UI25KP10P
30kHz Part Code	UI30KP10	UI30KP10P

DID YOU KNOW?

The Swivel™, Swivel Direct Flow® and Streamline® #100 Thin inserts, which feature a 40% thinner tip than the standard #10 insert, are ideal for light deposits. Recommended for use on LOW TO MEDIUM power only.

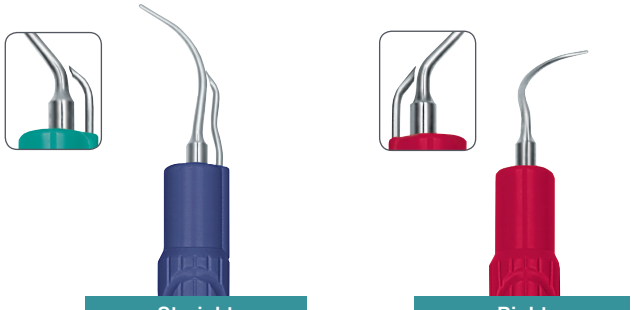
AFTER FIVE® PLUS™ INSERTS

Fixed water delivery, thinner tip design.

Reach deep into pockets and achieve efficient subgingival scaling with these thin tips, exclusively from Hu-Friedy. Probe-size tips (same tip design as the After Five® inserts) offer smooth, deep access into periodontal pockets. A fixed water tube provides hassle-free water delivery. Patient comfort is maximized since designs are efficient at low power settings. Our resin handle is lightweight and color-coded for instant tip identification, increased tactile sensitivity, and reduced operator fatigue.

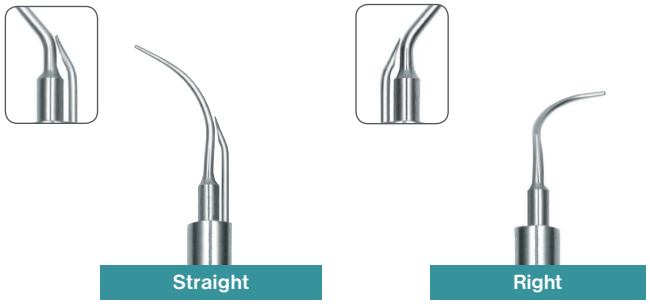
AFTER FIVE® PLUS™ INSERTS
Fixed water delivery, thinner tip design.

AFTER FIVE® PLUS™ INSERTS



SET OF THREE	Left	Straight	Right
UI25KSFSET	UI25KSF10L	UI25KSF10S	UI25KSF10R
UI30KSFSET	UI30KSF10L	UI30KSF10S	UI30KSF10R

AFTER FIVE® INSERTS



SET OF THREE	Left	Straight	Right
UI25KSLSET	UI25KSL10L	UI25KSL10S	UI25KSL10R
UI30KSLSET	UI30KSL10L	UI30KSL10S	UI30KSL10R

REFERENCE SECTION

MAGNETOSTRICTIVE INSERT CLEANING AND CARE

CLEANING

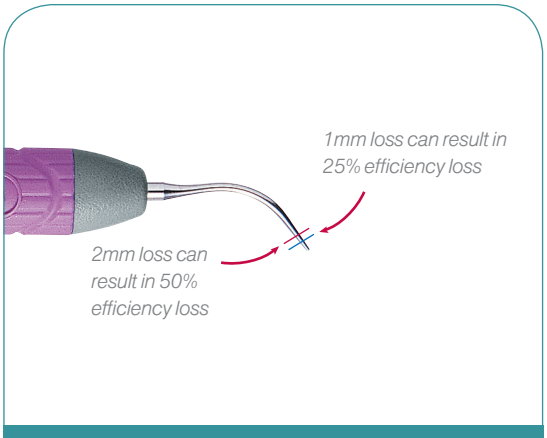
To clean, rinse thoroughly or, if you choose, fully immerse in a mild ultrasonic cleaning solution (pH 7-10.5) like Hu-Friedy's IMS Daily Clean or Enzymax. Place in ultrasonic cleaning unit for 7-10 minutes or 16-20 minutes if the insert is in a cassette. Thoroughly rinse the insert with tap water and dry completely prior to sterilization.

STERILIZATION

Sterilize Hu-Friedy ultrasonic inserts in an instrument cassette (i.e. IMS instrument cassette) or paper pouch in a steam autoclave. Chemical vapor sterilization is unacceptable for Swivel and Swivel Direct Flow inserts. Rapid heat transfer sterilization and cold liquid/chemical sterilants are not recommended and may void warranty. Avoid contact with corrosive chemicals such as chlorides, sulfates and surface disinfectants. Do not expose to solutions containing phenols.

CARE AND MAINTENANCE

To increase the o-ring life of Hu-Friedy ultrasonic inserts, to maintain a smooth swivel and to prevent water flow from the tip after release of the foot control, take the following steps before placing the insert into the handpiece: Hold the handpiece upright over the sink, activate the foot control and flush the water line for 2 minutes at the beginning of each day and 30 seconds between insert placement. Fill entire handpiece with water. Lubricate the o-ring with water. Gently twist the insert into the handpiece until completely seated. For Swivel™ and Swivel Direct Flow inserts, activate the foot switch and rotate insert 2-3 times.



Replacement of Worn Inserts Actual Size Guide

Scaling efficiency can significantly diminish with worn insert tips. Inferior performance and poor water delivery can result from worn, damaged, bent, or altered tips.

For optimal scaling efficiency, we recommend checking inserts monthly for signs of wear.

DID YOU KNOW?

All thin inserts (Swivel™ #100, Swivel XT™, Swivel Direct Flow® #100, Streamline® #100, After Five® inserts, Furcation inserts) should be used on LOW TO MEDIUM power settings only.

REFERENCE SECTION

POWER DISPERSION

Most Powerful

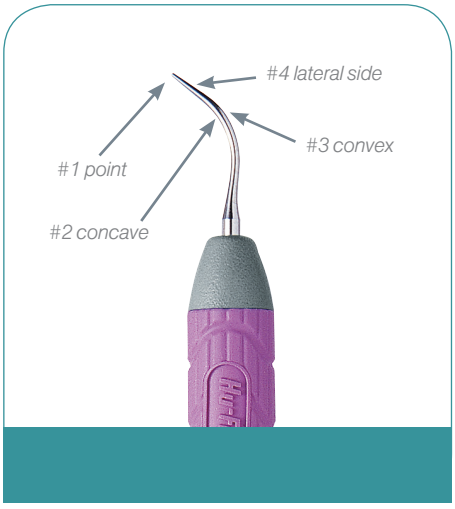
#1 point of tip

#2 concave surface

#3 convex surface

#4 lateral surfaces

Least Powerful



After Five® inserts are 40% thinner than the Original Prophy designs.

MAGNETOSTRICTIVE INSERT APPLICATION CHART

	#10 Universal	#100 Thin	SwivelXT™	#1000 Triple Bend	#3 Beavertail	Original Prophy inserts	After Five inserts (Left, Straight, Right)	Furcation inserts (Left, Straight, Right)
Light to moderate deposits	●	●	●			●	●	
Heavy deposits	●		●	●	●	●		
Orthodontic cement			●	●	●			
Moderate to heavy deposits in periodontal pockets	●		●			●		
Light to moderate deposits in periodontal pockets		●	●				●	
Furcation areas			●				●	●
Developmental concavities			●				●	●

DID YOU KNOW?

By varying the position of the magnetostrictive insert tip on the tooth you can increase deposit removal efficiency (concave and convex surfaces) or increase patient comfort (lateral surfaces).

REFERENCE SECTION

MAGNETOSTRICTIVE CROSS REFERENCE GUIDE

HU-FRIEDY ULTRASONIC INSERTS				DENTSPLY CAVITRON† INSERTS		
Tip Style	Handle	25kHz Part Code	30kHz Part Code	Tip Style	25kHz Handle	30kHz Handle
Swivel™						
#10 Universal	pink	UI25SS10	UI30SS10	TFI #10 Straight	grey	black
#100 Thin	black	UI25SS100	UI30SS100			
#1000 Triple Bend	orange	UI25SS1000	UI30SS1000	TFI #1000 Straight Triple	grey	black
Swivel XT™	purple	UI25SSXT	UI30SSXT	CTI-10S THINsert		purple
Swivel Direct Flow®						
#10 Universal	pink	UI25SD10	UI30SD10	FSI-10	dark blue	dark blue
#100 Thin	black	UI25SD100	UI30SD100	FSI-SLI 10S	green	green
#1000 Triple Bend	orange	UI25SD1000	UI30SD1000	FSI-1000	dark blue	dark blue
After Five Straight	dark blue	UI25SDS	UI30SDS	FSI-SLI 10S	green	green
After Five Right	red	UI25SDR	UI30SDR	FSI-SLI 10R	green	green
After Five Left	teal	UI25SDL	UI30SDL	FSI-SLI 10L	green	green
Set of 3*	dk. blue red teal	UI25SDSET	UI30SDSET	FSI-SLI Assorted	green	green
Streamline®						
#10 Universal	purple	UI1025K	UI1030K	TFI #10 Straight	grey	black
#100 Thin	black	UI25K100S	UI30K100S			
#1000 Triple Bend	orange	UI100025K	UI100030K	TFI #1000 Straight Triple	grey	black
#3 Beavertail	yellow	UI325K	UI330K	Bend TFI #3 Thin Beavertail	grey	black
Original Prophy Designs				**Classic "P"**		
#10 Universal	metal	UI25KP10	UI30KP10		metal	metal
#10 Universal PLUS™	green	UI25KP10P	UI30KP10P			
After Five® – Periodontal Debridement				**SLI† Slimline†**		
After Five Straight	metal	UI25KSL10S	UI30KSL10S		metal	metal
After Five Right	metal	UI25KSL10R	UI30KSL10R		metal	metal
After Five Left	metal	UI25KSL10L	UI30KSL10L		metal	metal
Set of 3*	metal	UI25KSLSET	UI30KSLSET		metal	metal
After Five® PLUS™ – Periodontal Debridement						
After Five PLUS™ Straight	dark blue	UI25KSF10S	UI30KSF10S			
After Five PLUS™ Right	red	UI25KSF10R	UI30KSF10R			
After Five PLUS™ Left	teal	UI25KSF10L	UI30KSF10L			
Set of 3*	dk. blue red teal	UI25KSFSET	UI30KSFSET			

IMPORTANT NOTE:

Hu-Friedy® and Dentsply® are competitors. This chart is not intended to suggest that the respective Dentsply and Hu-Friedy ultrasonic inserts are equivalent or comparable. Instead, this chart suggests an alternative Hu-Friedy brand ultrasonic insert based on the experience and recommendations of clinicians who have previously used the listed Dentsply inserts. Cavitron and Dentsply are registered trademarks of Dentsply International.

DID YOU KNOW?

Clinicians who use FSI† Focused Spray† and FSI-SLI Focused Spray Slimline inserts may consider Swivel Direct Flow® inserts as an alternative.

** Set of 3 includes a straight, right and left.*

† Dentsply, Cavitron, Slimline, Thru Flow, Classic "P", TFI, SLI, FSI and Focused Spray are trademarks of DENTSPLY International, Inc.

SYMMETRY IQ® 3000 MULTI-FUNCTIONAL PIEZO DEVICE

COMFORT AND CONTROL
Large-diameter, ergonomic handpiece with fiber-optic lighting for enhanced visibility.

TOUCH PAD CONTROLS
User-friendly touch pad controls ensure accurate setting adjustment. Three color-coded predefined power modes for a variety of dental procedures.

MEMORY FEATURE
Convenient memory feature allows for more efficient set-up time between patients, freeing up more time for patient care.

MODULAR PLUG AND PLAY DESIGN
Modular plug and play design provides convenient serviceability of unit and eliminates the cost and inconvenience associated with sending the unit out for repairs.

STATE OF THE ART CIRCUITRY
State of the art circuitry allows for efficient scaling performance and time savings. Allows clinician to work smarter, not harder.

SMOOTH SURFACE
Smooth, easy-to-clean surface simplifies infection control procedures and minimizes the risk of cross-contamination.

SYMMETRY IQ® 4000 MULTI-FUNCTIONAL PIEZO DEVICE
Offers all of the benefits of the Symmetry IQ 3000, as well as:

SELF-CONTAINED IRRIGATION
Stand alone, large capacity (350 or 500 ml), irrigation supply allows for increased portability and use of medicaments. Switch to city water with the touch of a button.

AUTO-FLUSHING FUNCTION
Automatic purge function for ease of cleaning.

INDIVIDUAL FLUID CONTROLS
Easy to adjust fluid controls for improved convenience and control.

SYMMETRY IQ PART CODES

Symmetry IQ 3000 Device	UP3-120
Symmetry IQ 4000 Device	UP4-120

Each Symmetry IQ unit comes with three Symmetry Piezo Tips (USP, USS10, US100).

DID YOU KNOW?

The Symmetry IQ Generators are compatible with Symmetry S-Series Tips as well as Satelec/Acteon and NSK Tips.

SYMMETRY IQ® HANDPIECE

SUPERIOR ERGONOMICS

FIBER-OPTIC LIGHTING
Fiber-optic illumination reduces eye strain and enhances visibility.

LARGE DIAMETER, ERGONOMIC DESIGN
The large diameter ergonomic handpiece relaxes hand grasp for accuracy and control, eliminates pressure points and improves tactile sense.

LIGHTWEIGHT
The lightweight handle reduces muscle strain and hand fatigue, enhancing clinician comfort.

SYMMETRY IQ® HAND PIECE PART CODE

Handpiece Lux	UPHPLC

REPLACEMENT PART CODES

SYMMETRY IQ® PARTS

3000/4000 Lux Handpiece Cord	UPHPLC
Handpiece Sheath	UPHPLS
Foot Control	UPFC
Water Tube (2mm)	UPWT
Water Filter Set (2mm)	UPWTS
Water Filter Set (2mm) with Connector	UPWTSC
Water Filter	UPWF
Water Filter Case	UPWFC
Irrigation Connector (120V only)	UPIC
Bulb (set of 3 replacements)	UPB
Bulb (1)	UPB-1
Spanner Wrench 8-5 mm (2pcs)	UPSW
IQ 3000 Power Cord (AC120V) US	UPCORD-US

SYMMETRY IQ® 4000 SPECIFIC PARTS

Irrigation Pump	UP4PUMP
Irrigation Pump Cover	UP4PUMPCVR
Irrigation Bottle w/cap 350 ml (1pce)	UPBOT350
Irrigation Bottle w/cap 500 ml (1pce)	UPBOT500
Irrigation Bottle O-rings (2 pcs.)	UP4ORINGS
Irrigation Bottle Cap	UP4BTLCAP
IQ 4000 Fuse (120V: T1,25AL/125V (120V)	UP4FUSE120
IQ 4000 Power Cord (AC120V) US	UP4CORD-US

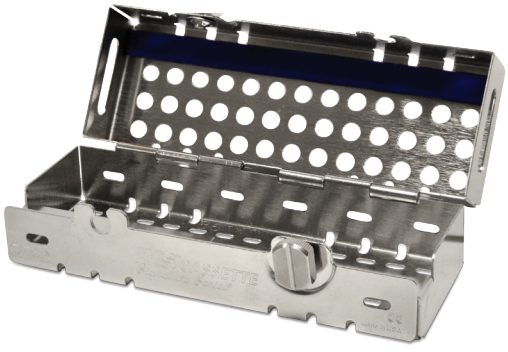
SYMMETRY ACCESSORIES

SYMMETRY IQ® HANDPIECE CASSETTE

SINGLE Exterior Dimensions 1.5"x 8"x 1.25" (38mm x 203mm x 32mm)
DOUBLE Exterior Dimensions 3"x 8"x 1.25" (76mm x 203mm x 32mm)

Single	IM30IQ8
Double (shown)	IM60IQ8

Symmetry handpiece not included.



SYMMETRY IQ WRENCH CASSETTE

Accomodates 3 Symmetry Piezo Tips in Guardian Wrenches.
Exterior Dimensions 5.63" x 1.95" x 1.77"

Blue	IMIQ38

GUARDIAN WRENCH/TIP CARRIER

Symmetry™ Piezo Tips come with the Guardian™ Wrench Tip Carrier—an innovative, patented torque-limiting wrench/tip carrier designed for remarkably safe and easy connection to the handpiece.

USAGE:

- Tips contained in an ORANGE wrench should be used primarily on medium to high power.
- Tips contained in a BLUE wrench should be used primarily on low to medium power (in Scaling mode if applicable).
- Tips contained in a GREEN wrench should be used primarily on low power only (in Perio mode if applicable).

Refer to Power Setting Cross Reference on page C18 for equipment specific power settings.

Color of the Guardian indicates equipment application mode (if applicable). Refer to your equipment for Scaling and Perio application mode.

Scaling Wrench/Tip Carrier

Scaling Wrench/Tip Carrier

Perio Wrench/Tip Carrier

REPLACEMENT WRENCH

Black Replacement Wrench	USRTW

WHAT TYPE OF STERILIZATION UNIT DOES YOUR OFFICE USE?

If a Statim 2000 unit is the only sterilizer in your office, you will need to order special shorter Hu-Friedy Guardian Wrenches to ensure compatibility with your sterilizer:

Green, S-Series, Short Wrench	USRTWSG
Blue, S-Series, Short Wrench	USRTWSB
Green, E-Series, Short Wrench	UERTWSG
Blue, E-Series, Short Wrench	UERTWSB

Note: Please order tips separately.

SYMMETRY PIEZO SCALING TIPS

Our special blend of stainless steel works in harmony with your generator's ultrasonic energy to optimize vibration for superior scaling efficiency and unmatched durability. S-Series tips are compatible with Hu-Friedy's Symmetry IQ®, Satelec®/Acteon and NSK® generators. E-Series tips are compatible with all EMS generators.*

	S10 Universal	**P Universal**	**P10 Universal**	**100 Universal**
S-Series Part Code (Hu-Friedy, Satelec®/Acteon and NSK®)	USS10	USP	USP10	US100
E-Series Part Code (EMS Only)	UES10	UEP	*Not available*	UE100
	Standard diameter tip used to remove heavy supragingival deposits.	Standard diameter tip used to remove moderate to heavy deposits located supragingivally and in pockets.	Standard diameter tip used to remove light deposits and plaque. Tip features smooth edges for safe removal of soft and hard deposits.	Probe-sized tip used to remove light deposits in shallow to moderate pockets and for periodontal maintenance.

STRAIGHT, LEFT AND RIGHT AFTER FIVE TIPS

These probe-sized tips are designed to enhance access into periodontal pockets and improve adaptation in interproximal areas, allowing the clinician to more thoroughly debride difficult to reach areas to achieve better clinical results.

	After Five Straight	**After Five Left**	**After Five Right**
S-Series Part Code (Hu-Friedy, Satelec®/Acteon and NSK®)	USAFS	USAFL	USAFR
E-Series Part Code (EMS Only)	*Not available*	*Not available*	*Not available*

After Five® Straight

DID YOU KNOW?

Hu-Friedy Symmetry S-Series tips are compatible with Symmetry IQ, Satelec/Acteon and NSK piezo generators. Symmetry E-Series tips are compatible with EMS piezo generators.

SYMMETRY PIEZO PERIO TIPS

	Universal Perio	100 Universal Modified	Left Perio	Right Perio
S-Series Part Code (Hu-Friedy, Satelec®/Acteon and NSK®)	USU	*Not available*	US4L	US4R
E-Series Part Code (EMS Only)	*Not available*	UE100M	*Not available*	*Not available*
	Thin tip used to remove light deposits and plaque. Tip features smooth edges for safe removal of soft and hard deposits.	Thin tip used to remove light deposits and plaque. Tip features smooth edges for safe removal of soft and hard deposits.	Standard diameter contra-angle tip used to remove calculus on all surfaces of premolars and molars, especially difficult to reach interproximal surfaces.	Standard diameter contra-angle tip used to remove calculus on all surfaces of premolars and molars, especially difficult to reach interproximal surfaces.

	3 Perio	Left Diamond	Right Diamond	Straight Diamond
S-Series Part Code (Hu-Friedy, Satelec®/Acteon and NSK®)	USP3	US2LD	US2RD	US1D
E-Series Part Code (EMS Only)	UEP3	UE2LD	UE2RD	UE1D
	Thin-bladed curette-like tip used to remove heavy deposits and necrotic cementum on anteriors and premolars.	Thin, contra-angle diamond-coated finishing instrument used for removal of residual debris and designed to enhance access to deep periodontal pockets and furcations.	Thin, contra-angle diamond-coated finishing instrument used for removal of residual debris and designed to enhance access to deep periodontal pockets and furcations.	Thin, straight diamond-coated finishing instrument used for removal of residual debris and designed to enhance access to deep periodontal pockets primarily in anterior areas.

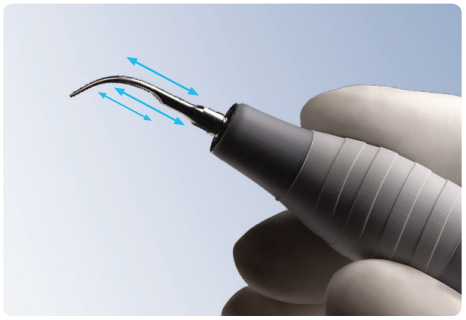
3 Perio

**Satelec, NSK and EMS are trademarks of their respective owners.*

REFERENCE SECTION

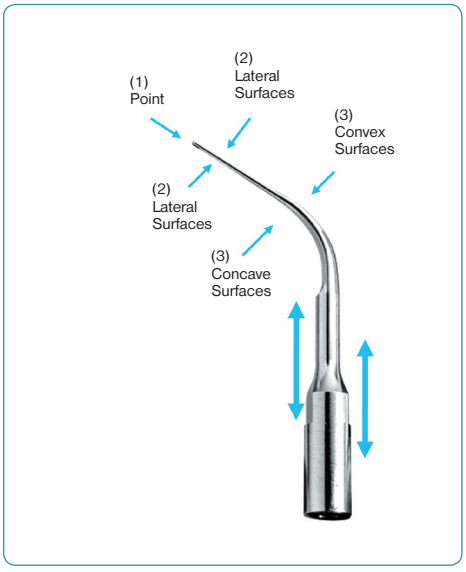
CHARACTERISTICS OF TIP MOVEMENT

The smooth linear movement generated by piezoelectric systems creates a stroke pattern that is similar to hand instrumentation. Adapting the lateral surface of the piezo tip against the tooth surface (similar to a hand instrument) will increase clinical efficiency.



ESSENTIALS OF POWER DISPERSION

- Most of the energy is dispersed at the point of tip (1).
- The lateral surfaces of the tip (2) are moving in a linear pattern, similar to the stroke of a bladed hand instrument.
  - Adaptation of this surface provides the most efficient deposit removal
  - Adapt the terminal 2-3mm of tip for optimal performance
- When concave front or convex back surfaces are adapted to the tooth surface, the instrument will chatter against the surface rather than effectively instrument.



PIEZO TIP ADAPTATION

- Adapt the lateral surface to the tooth for optimal performance.
- Maintain tip angulation near zero degrees – parallel to tooth surface.
- To minimize the risk of root damage, never adapt tip at a 90-degree angle.
- Use little or no lateral pressure and let the tip do the work for you.

SENSORY OBSERVATIONS

- Smooth vibration enhances tactile sense for instrumentation.
- The smooth motion of the tip is an excellent option for patients with root sensitivity.
- Piezo tip vibration is very smooth and quiet when adapted correctly on a lateral surface.
- Deposits are pulverized, resulting in a slurry of debris that is visible in the water at the back of the mouth.
- Calculus is generally not removed in big chunks as commonly seen during magnetostrictive instrumentation.

DID YOU KNOW?

To achieve the greatest efficiency and patient comfort, it is best to adapt the lateral sides of your piezoelectric instrument to the surface of the tooth.

REFERENCE SECTION

PIEZO APPLICATION CHART

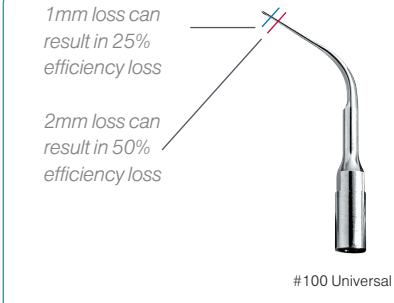
	S10	U	100, 100M	P10	P3	4R, 4L	1D	2RD, 2LD	P	AFS, AFL, AFR
Light to moderate deposits	●	●	●		●				●	
Heavy supragingival deposits	●			●					●	
Light to moderate deposits in shallow pockets		●	●		●		●		●	●
Light to moderate deposits in deep periodontal pockets					●		●	●		●
Moderate to heavy deposits in deep periodontal pockets						●				
Furcation areas								●		

PIEZO CARE AND MAINTENANCE

Scaling efficiency can significantly diminish with worn tips. Inferior performance and poor water delivery can result from worn, damaged, bent, or altered tips. For optimal scaling efficiency, we recommend checking tips regularly for signs of wear.

CLEANING & STERILIZATION

- Piezo tips remain in the Guardian Tip carrier during the complete cleaning, disinfection and sterilization reprocessing cycle.
- Clean using ultrasonic cleaner or thermodisinfector.
- Steam sterilize for at least 5 minutes at 270°F/134°C or 20 minutes at 250°F/121°C. Do not heat above 350°F/177°C.
- Clean, disinfect, inspect and and steam sterilize before each use following the respective equipment manufacturer's users instructions.
- Do not expose to phenols, iodophors or dry heat sterilization.



Replacement of Worn Tips Actual Size Guide

TIP INSTALLATION

1. Your Hu-Friedy Piezo tip comes with its own tip carrier/torque limiting wrench (the Guardian).
2. Attach tip to handpiece using the Guardian by aligning the threaded end of the tip to the handpiece.
3. Rotate the Guardian clockwise.
4. Complete installation of the tip by rotating the Guardian until you hear clicking.
5. The Guardian must be used to completely tighten the tip during installation. Incomplete tightening may cause the tip to become loose or lack vibration.
6. When using the Guardian without a tip previously inserted into the tip carrier, take the following step: place the Guardian over the tip by slipping tip through the small hole in the bottom, closed end of the tool. This will position the tip within the Guardian for safety and convenience.

TIP REMOVAL

1. Hold the handpiece vertically. Insert the tip through the hole in the bottom of the Guardian.
2. Depress wrench slightly while rotating to fully secure tip to wrench.
3. Turn the Guardian counter-clockwise to loosen and remove tip from handpiece.
4. Once removed from handpiece, do not remove the tip from the Guardian carrier.

DID YOU KNOW?

The Symmetry IQ CD Rom features manuals, technique videos, clinical presentations and much more available for download.

Part code: HF425CD

REFERENCE SECTION

PIEZO POWER SETTINGS CROSS REFERENCE

HU-FRIEDY	APPLICATION				POWER SETTING				
TIP	HU-FRIEDY	SATELEC	NSK	POWER	HU-FRIEDY SYMMETRY IQ	SATELEC P5	SATELEC SP NEUTRON	NSK VARIOS	EMS MINI-PIEZON
USS10		SCALING	SCALING	MED	2 - 8 1 - 4	7 - 9	8 - 10	Min - 3	
UES10				MED					1 - 6
USP10		SCALING	SCALING	MED	1 - 4	7 - 8	8 - 10	Min - 3	
UEP				MED					1 - 6
USP		SCALING	SCALING	MED	2 - 8 1 - 4	7 - 9	8 - 10	Min - 3	
US100		SCALING	SCALING	MED	4 - 10 1 - 3	4 - 6	6 - 8	Min - 1	
USU		SCALING	SCALING	MED	4 - 10 1 - 3	7 - 8	1 - 6	Min - 4	
USAFS		SCALING	SCALING	MED	1 - 5	7 - 8	8 - 10	Min - 3	
USAFL		SCALING	SCALING	MED	1 - 5	7 - 8	8 - 10	Min - 3	
USAFR		SCALING	SCALING	MED	1 - 5	7 - 8	8 - 10	Min - 3	
UE100				LOW					
UE100M				LOW					1 - 3
USP3		PERIO	PERIO	LOW	4 - 10	1 - 3	1 - 4	Min - 4	
UEP3				LOW					1 - 3
US4R		PERIO	PERIO	LOW	6 - 10 1 - 6				
US4L		PERIO	PERIO	LOW					
US1D		PERIO	PERIO	LOW	7 - 10 1 - 6				
UE1D				LOW					1 - 3
US2RD		PERIO	PERIO	LOW	1 - 5	1 - 3	1 - 4	Min - 4	
UE2RD				LOW					1 - 3
US2LD		PERIO	PERIO	LOW	1 - 5	1 - 3	1 - 4	Min - 4	
UE2LD				LOW					1 - 3

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HU-FRIEDY ITEM CODE CROSS REFERENCE:

HU-FRIEDY	SATELEC	NSK VARIOS	EMS
USS10	S1	G1	
UES10			A
US100	10Z	G6	
UE100			PS
UE100M			PL3
USP10	10P	G4	
USP	1S	G5	
UEP			P
USU	PFU	P20	
USP3	H3	P10	
UEP3			
US4R	H4R		
US4L	H4L		
US1D	H1		
UE1D			
US2RD	H2R	PD3	
UE2RD			
US2LD	H2L	PD2	
UE2LD			
USAFS		P20	
USAFL		P21L	
USAFR		P21R	